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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 6653**  
Rie KOJIMA et al. : Attorney Docket No. 2006\_0374A  
Serial No. 10/573,174 : Group Art Unit 1772  
Filed March 23, 2006 :

INFORMATION RECORDING MEDIUM

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**SUBMISSION OF ENGLISH VERSION OF IPER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

An English language version of the International Preliminary Examination Report is submitted herewith for the Examiner's consideration.

Respectfully submitted,

Rie KOJIMA et al.

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May 15, 2007

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 665171	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/JP2005/009163	International filing date ( <i>day/month/year</i> ) 19 May 2005 (19.05.2005)	Priority date ( <i>day/month/year</i> ) 28 July 2004 (28.07.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. +41 22 338 82 70	Date of issuance of this report 30 January 2007 (30.01.2007)  Authorized officer  <div style="text-align: center; font-weight: bold; font-size: 1.2em;">Masashi Honda</div>  e-mail: pt08@wipo.int
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# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

**TRANSLATION**  
**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**665171**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2005/009163**

International filing date (day/month/year)

**19.05.2005**

Priority date (day/month/year)

**28.07.2004**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/009163

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

This opinion has been established on the basis of a translation from the original language into the following language

, which is the language of a translation furnished for the purposes of international search (under

Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

- a. type of material

☐

a sequence listing

☐

table(s) related to the sequence listing

- b. format of material

☐

in written format

☐

in computer readable form

- c. time of filing/furnishing

☐

contained in the international application as filed.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/009163

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
<b>1. Statement</b>			
Novelty (N)	Claims	<u>1-32</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>2-8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</u>	YES
	Claims	<u>1, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 32</u>	NO
Industrial applicability (IA)	Claims	<u>1-32</u>	YES
	Claims	_____	NO
<b>2. Citations and explanations:</b>			
<p>Document 1: JP, 3-121888, A (Dowa Mining Co., Ltd.), 23 May, 1991 (23.05.91), the claims, example 3</p> <p>Document 2: JP, 2003-16687, A (Matsushita Electric Industrial Co., Ltd.), 17 January, 2003 (17.01.03), the claims, &amp; US, 2002/24913, A1, &amp; EP, 1172811, A2</p> <p>Document 3: JP, 2003-341241, A (Matsushita Electric Industrial Co., Ltd.), 3 December, 2003 (03.12.03), the claims, &amp; US, 2003/190447, A1, &amp; EP, 1351229, A2</p> <p>Document 4: JP, 2001-266409, A (Victor Company of Japan, Ltd.), 28 September, 2001 (28.09.01), the claims</p> <p>The subject matters of claims 1, 29, 31 and 32 do not appear to involve an inventive step in view of document 1 cited in the ISR. Document 1 describes an invention concerning an information recording material comprising a recording layer containing a Ge, Bi, Te or In-based material. A person skilled in the art could have easily set the composition ratio of the information layer within a range of numerical values of formula (1) of the subject matters of claims 1 and 29 and applied the composition ratio of the information layer to a recording/reproduction device having a laser wavelength specified by claims 31 and 32.</p> <p>The materials represented by formulas (2), (3) and (4) and described in claims 2-8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28 and 30 are neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.</p> <p>The subject matters of claims 9, 11, 13, 15, 17, 19, 21, 23, 25 and 27 do not appear to involve an inventive step in view of document 1 and documents 2-4 cited in the ISR. It is well known in this particular technical field as described in documents 2-4 to provide two or more information layers and to provide a first dielectric layer, a second dielectric layer, an optical absorption correcting layer and a reflection layer. A person skilled in the art could have easily applied the well-known technique to the invention described in document 1.</p>			